

Title (en)

LIGHT RECEIVING OR LIGHT EMITTING MODULAR SHEET AND PROCESS FOR PRODUCING THE SAME

Title (de)

LICHTEMPFANGENDES ODER LICHEMITTIERENDES MODULARES BLATT UND HERSTELLUNGSPROZESS DAFÜR

Title (fr)

FEUILLE MODULAIRE RECEVANT OU EMETTANT DE LA LUMIERE ET SON PROCEDE DE PRODUCTION

Publication

EP 1677362 A1 20060705 (EN)

Application

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Priority

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Abstract (en)

A light receiving or light emitting modular sheet having a plurality of spherical elements arranged in matrix. It is constituted only of acceptable spherical elements and photoelectric conversion efficiency thereof is enhanced. The light receiving modular sheet (1) comprises a plurality of spherical solar cell elements (2) arranged in matrix, a meshed member (3), and a sheet member (4). Each solar cell element (2) comprises a spherical pn junction (13), and positive and negative electrodes (14, 15) formed oppositely while sandwiching the center of the solar cell element (2) and being connected with respective electrodes of the pn junction (13). The meshed member (3) has a plurality of conductive wires (20, 21) arranged in parallel in order to connect the plurality of spherical solar cell elements (2) in each column electrically in parallel, and insulating tensile wires (22) arranged between the rows of solar cell elements (2) to cross the conductive wires (20, 21) perpendicularly while being woven in a meshed form to secure the plurality of conductive wires (20, 21).

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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